

20020804.qrp v02\_n637.qrl.20020804

Date: Sun, 4 Aug 2002 19:03:11 EDT  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 2637

QRP-L Digest 2637

Topics covered in this issue include:

- 1) [131458] Re: ARRL Antenna Book 19th Edition  
by "Rob Mathery" <w0jrm@arrl.net>
- 2) [131459] Contest?  
by "Rob Mathery" <w0jrm@arrl.net>
- 3) [131460] Re: Contest?  
by Paul Womble <pwomble1@tampabay.rr.com>
- 4) [131461] Re: ARRL Antenna Book 19th Edition  
by Rick McKee <kc8aon@juno.com>
- 5) [131462] Re: ARRL Antenna Book 19th Edition  
by Rick McKee <kc8aon@juno.com>
- 6) [131463] Re: ARRL Antenna Book 19th Edition  
by Rick McKee <kc8aon@juno.com>
- 7) [131464] Multiband "QRP" antenna - no tuner needed !  
by Rick McKee <kc8aon@juno.com>
- 8) [131465] Re: Contest?  
by "Rob Mathery" <w0jrm@arrl.net>
- 9) [131466] Re: ARRL Antenna Book 19th Edition  
by "blinn" <blinn@smgazette.com>
- 10) [131467] Re: ARRL Antenna Book 19th Edition  
by Thom LaCosta <baltimoremd@baltimoremd.com>
- 11) [131468] PLL Kit - part of multiPIG+  
by "w8diz" <w8diz@fpqrp.com>
- 12) [131469] Re: CPO Audio frequency  
by "Chetan Bhargava" <wiz@bhargavaz.net>
- 13) [131470] Re: simple keyer  
by "Darrel E. Jones" <wd6bor@vom.com>
- 14) [131471] FOX: AC7A Final Result for Aug. 1st Hunt  
by Thomas Kuehl <ac7a@gci-net.com>
- 15) [131472] Going for a new rig SALE  
by "The Whites" <lwnphx@peoplepc.com>
- 16) [131473] Re: ARRL Antenna Book 19TH Edition, Re: What is QRP Antenna?  
by George Gingell <k3tks@u1.abs.net>
- 17) [131474] Re: CPO Audio frequency  
by "Leon Heller" <leon\_heller@hotmail.com>
- 18) [131475] K0EVZ in AK land  
by "Doc Lindsey K0EVZ" <dock0evz@earthlink.net>
- 19) [131476] Re: Contest?--K0EVZ/KL7 today

- by "Doc Lindsey K0EVZ" <dock0evz@earthlink.net>
- 20) [131477] Re: ARRL Antenna Book 19TH Edition, Re: What is QRP Antenna?  
by W2AGN <w2agn@w2agn.net>
- 21) [131478] Re: Multiband "QRP" antenna - no tuner needed !  
by "Karl F. Larsen" <k5di@zianet.com>
- 22) [131479] Re: ARRL Antenna Book 19th Edition  
by "Karl F. Larsen" <k5di@zianet.com>
- 23) [131480] RE: ARRL Antenna Book 19th Edition  
by "Dave Richards" <wr3i@earthlink.net>
- 24) [131481] Re: ARRL Antenna Book 19TH Edition, Re: What is QRP Antenna?  
by Bruce Muscolino <w6toy@erols.com>
- 25) [131482] Re: ARRL Antenna Book 19th Edition  
by Bruce Muscolino <w6toy@erols.com>
- 26) [131483] NAQP Results  
by "George Osier" <gosier@twcnny.rr.com>
- 27) [131484] Re: [NJQRP] [CONTEST] N2CQ QRP Contest Contest Calendar -  
August 2002  
by Larry Cahoon <lejek@erols.com>
- 28) [131485] QRP Wattmeter- HM-102 Modification  
by w4bws@juno.com
- 29) [131486] <no subject>  
by Mike <mparkes@att.net>
- 30) [131487] Re: Contest?--K0EVZ/KL7 today  
by Paul Womble <pwomble1@tampabay.rr.com>
- 31) [131488] Freg.  
by "Sparky" <lou@harborside.com>
- 32) [131489] Re: Multiband "QRP" antenna - no tuner needed !  
by William R Colbert <w5xe@juno.com>
- 33) [131490] [ FS ] Heathkit HM-102 Watt/SWR Meter  
by Chuck Carpenter <w5usj@9plus.net>
- 34) [131491] RE: ARRL Antenna Book 19th Edition  
by "Karl F. Larsen" <k5di@zianet.com>
- 35) [131492] QRP Watt meter MFJ  
by "Karl F. Larsen" <k5di@zianet.com>
- 36) [131493] Re: Multiband "QRP" antenna - no tuner needed !  
by William R Colbert <w5xe@juno.com>
- 37) [131494] Spartan Sprint from Topsail Island  
by Paul Stroud <aa4xx@ipass.net>
- 38) [131495] OT - but power savings...  
by "Mike Yetsko" <myetsko@insydesw.com>
- 39) [131496] rainbowntuner-bridge switch  
by guyg <guyg@bellatlantic.net>
- 40) [131497] Slinky Supplies  
by Kenneth Hoglund <hoglund@wfu.edu>
- 41) [131498] Re: ARRL Antenna Book 19th Edition  
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 42) [131499] RE: ARRL Antenna Book 19th Edition  
by W2AGN <w2agn@w2agn.net>

- 43) [131500] Re: Multiband "QRP" antenna - no tuner needed !  
by W2AGN <w2agn@w2agn.net>  
44) [131501] Re: Multiband "QRP" antenna - no tuner needed !  
by William R Colbert <w5xe@juno.com>  
45) [131502] Re: Info on batteries?  
by David Hinerman <WD8CIV@worldnet.att.net>  
46) [131503] SLV question  
by Bruce Rattray <rattray@gpfn.sk.ca>  
47) [131504] Re: SLV question  
by David Gauding <david.gauding@bbs.galilei.com>  
48) [131505] Re: NAQP Results  
by KENNETH ROBERT MCGUIRE <at902@tcnet.org>  
49) [131506] Re: query results so far  
by "George, W5YR" <w5yr@att.net>  
50) [131507] Re: Wire and ferrite baluns  
by "George, W5YR" <w5yr@att.net>  
51) [131508] Need main tuning dial for Index Labs  
by Rob Ellis <ac6wq@yahoo.com>  
52) [131509] Re: rainbowntuner-bridge switch  
by Lew Paceley <lew@paceley.com>  
53) [131510] RE: Going for a new rig SALE  
by "The Whites" <lwnphx@peoplepc.com>  
54) [131511] K7RE.....HELP !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!  
by "George Osier" <gosier@twcnv.rr.com>

-----  
Date: Sat, 3 Aug 2002 18:03:19 -0500  
From: "Rob Mathery" <w0jrm@arrl.net>  
To: "Mike Yetsko" <myetsko@insydesw.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [131458] Re: ARRL Antenna Book 19th Edition  
Message-ID: <00d901c23b42\$0b676140\$7f11a541@jimrob>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Ah... THAT'S why my QRP antennas never work ;^)

72/73/oo  
Rob, w0jrm

=====  
Visit my website! <http://www.qsl.net/w0jrm>  
=====

----- Original Message -----

From: Mike Yettsko <myetsko@insydesw.com>  
To: <w0jrm@arrl.net>; Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Saturday, August 03, 2002 5:50 PM  
Subject: Re: ARRL Antenna Book 19th Edition

> And what about the coulomb inductor???

>

> Mike

>

-----

Date: Sat, 3 Aug 2002 18:05:31 -0500  
From: "Rob Mathery" <w0jrm@arrl.net>  
To: <fpqrp-1@fpqrp.com>, <qrp-1@lehigh.edu>  
Subject: [131459] Contest?  
Message-ID: <00df01c23b42\$512bcae0\$7f11a541@jimrob>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Is there a contest this weekend? I keep hearing "cq na" (or similar stuff)  
all over 20m. Wondering if one slipped by me...

72/73/oo  
Rob, w0jrm

=====  
Visit my website! <http://www.qsl.net/w0jrm>  
=====

-----

Date: Sat, 03 Aug 2002 19:26:59 -0400  
From: Paul Womble <pwomble1@tampabay.rr.com>  
To: w0jrm@arrl.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>,  
        FP List <fpqrp-1@mpna.com>  
Subject: [131460] Re: Contest?  
Message-ID: <3D4C66C3.B33ECE83@tampabay.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

North American QSO Party

<http://www.ncjweb.com/naqprules.php>

If you look you can even work me!

Paul (Dan today) K4FB

-----  
Date: Sat, 3 Aug 2002 19:01:23 -0400  
From: Rick McKee <kc8aon@juno.com>  
To: qrp-1@lehigh.edu  
Subject: [131461] Re: ARRL Antenna Book 19th Edition  
Message-ID: <20020803.192438.8838.0.kc8aon@juno.com>

What is a QRP Antenna?

QRP antenna ? Gosh, I'd better go take down my 178' center fed zepp made of 12 gauge wire and put up something made of "INVISIBLE WIRE and 300 OHM TWIN LEAD" or you guys will shun me from the QRP fraternity ! Didn't know ya'll had rules against QRO antennas..... PLEASE FORGIVE ME OLE GREAT GOD OF RF

Rick McKee, KC8AON  
Willow Wood, Ohio  
QRP - Do more with less !

-----  
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-----  
Date: Sat, 3 Aug 2002 19:18:26 -0400  
From: Rick McKee <kc8aon@juno.com>  
To: qrp-1@lehigh.edu  
Subject: [131462] Re: ARRL Antenna Book 19th Edition  
Message-ID: <20020803.192438.8838.2.kc8aon@juno.com>

Yeah ! And all self proclaimed "ANTENNA GURU"s have a "BS" degree -  
Think about it !

Rick McKee, KC8AON  
Willow Wood, Ohio  
QRP - Do more with less !

On Sat, 03 Aug 2002 18:28:33 -0400 Paul Womble <pwomble1@tampabay.rr.com>  
writes:

>Scientists name stuff after themselves, right?

>

>I bet Mr. Centrifugal would be pissed to read this ;-)

>

>Although Mr. Inertia is now getting his just reward!

>

>Paul K4FB

>

>>

>> > I'll have to disagree on that one! A physics teacher spent a full  
>lab

>> > session in College showing us all what centrifugal force was!

>>

>> I repeat, there is no such thing. There is only inertia.

>>

>> What your physics professor was probably doing was showing you  
>> how a centrifuge uses inertia.

>>

>> Again, there is no such thing. There is only inertia.

>>

>> Mike

>

---

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Date: Sat, 3 Aug 2002 19:20:08 -0400

From: Rick McKee <kc8aon@juno.com>

To: qrp-l@lehigh.edu

Subject: [131463] Re: ARRL Antenna Book 19th Edition

Message-ID: <20020803.192438.8838.3.kc8aon@juno.com>

NO NO NO, just use teflon insulated wire to eliminate the friction !

Rick McKee, KC8AON

Willow Wood, Ohio

QRP - Do more with less !

On Sat, 3 Aug 2002 17:36:58 -0500 "Rob Mathery" <w0jrm@arrl.net> writes:

>Don't forget that you will also need to insert a flux capacitor in

>your

>tuning circuit to compensate for the increased friction of the

>electrons

>rubbing on the insulation of the wire (if bare wire, use a xulf

>inductor)

>

>72/73/oo

>Rob, w0jrm

>

>=====

>Visit my website! <http://www.qsl.net/w0jrm>

>=====

>

>> Yes, but remember the theory taught by Prof Arnold Gilgamesh, PHd in  
>1899.

>if you put 5 watts into that little wire it may be OK, but with 100

>watts,

>you have 20 times

>> more electrons, so they get all stuck in there, like rush hour

>traffic.

>You need a bigger wire, like going to 6 lanes from 4 lanes, then all

>those

>little electrons can zip right

>> along. Of course, if there is a crash, then your conjugal match gets

>all

>screwed up, and you can't get out anyway.

>>

>> Mathematical theory at 11.

>>

>> --

>>

>> /\_ \ /\_ \ /\_ \ /\_ \ /\_ \ John L. Sielke

>> ( W ) ( 2 ) ( A ) ( G ) ( N ) <http://www.w2agn.net>

>> \\_ / \\_ / \\_ / \\_ / \\_ / QRPARCI, NJQRP, ARQrp, GQRP, RSGB

>> Ex- K3HLU, W7JEF, W4MPC, N4JS

>

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-----  
Date: Sat, 3 Aug 2002 19:41:43 -0400

From: Rick McKee <kc8aon@juno.com>

To: qrp-1@lehigh.edu

Subject: [131464] Multiband "QRP" antenna - no tuner needed !

Message-ID: <20020803.194208.6670.0.kc8aon@juno.com>

Gang,

Obtain a short piece of 50 ohm coax with a plug on one end that matches the antenna connector on your transmitter, on the other end of this piece of coax, connect a 50 ohm non inductive resistor big enough to handle the power of your transmitter from the center conductor to the shield. Now connect a random length of antenna wire (make sure and use something real small in diameter or it aint QRP) to the center conductor and hang it from a near by tree, then connect the shield side of the coax to a good earth ground. Plug it into your transmitter and away you go, no tuner needed, works all bands, and you will definitely have a QRP signal !

Rick McKee, KC8AON

Willow Wood, Ohio

QRP - Do more with less !

-----  
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----- End forwarded message -----

-----  
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Date: Sat, 3 Aug 2002 18:58:31 -0500  
From: "Rob Mathery" <w0jrm@arrl.net>  
To: "Paul Womble" <pwomble1@tampabay.rr.com>  
Cc: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>,  
"FP List" <fpqrp-1@mpna.com>  
Subject: [131465] Re: Contest?  
Message-ID: <010201c23b49\$b4b66960\$7f11a541@jimrob>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I would if my radio was working right :^/ (Loooong story, don't ask ;^D)

72/73/oo  
Rob, w0jrm

=====  
Visit my website! <http://www.qsl.net/w0jrm>  
=====

----- Original Message -----

From: Paul Womble <pwomble1@tampabay.rr.com>  
To: <w0jrm@arrl.net>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>; FP List  
<fpqrp-1@mpna.com>  
Sent: Saturday, August 03, 2002 6:26 PM  
Subject: Re: Contest?

> North American QSO Party  
>  
> <http://www.ncjweb.com/naqprules.php>  
>  
> If you look you can even work me!  
>  
> Paul (Dan today) K4FB

-----  
Date: Sat, 3 Aug 2002 17:16:43 -0700  
From: "blinn" <blinn@smgazette.com>  
To: <k5di@zianet.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [131466] Re: ARRL Antenna Book 19th Edition  
Message-ID: <006201c23b4c\$4c90b360\$6b8aa242@blinn>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Darn, now I know.... it wasn't lightning that melted my 300 ohm feedline...  
them QRO SWRs got it!

---

Outgoing mail is certified Virus Free.  
Checked by AVG anti-virus system (<http://www.grisoft.com>).  
Version: 6.0.365 / Virus Database: 202 - Release Date: 5/24/02

--

-----  
Date: Sat, 3 Aug 2002 21:31:06 -0400 (EDT)  
From: Thom LaCosta <baltimoremd@baltimoremd.com>  
To: blinn <blinn@smgazette.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [131467] Re: ARRL Antenna Book 19th Edition  
Message-ID: <20020803213009.V36626-100000@unix1.vhost.min.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 3 Aug 2002, blinn wrote:

> them QRO SWRs got it!

Sounds like the name of a rock group.

Thom

-----  
Date: Sat, 3 Aug 2002 22:06:47 -0400  
From: "w8diz" <w8diz@fpqrp.com>  
To: <qrp-l@lehigh.edu>  
Cc: <fpqrp@fpqrp.com>  
Subject: [131468] PLL Kit - part of multiPIG+  
Message-ID: <010801c23b5b\$9778bc10\$b8cf1d41@cinci.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hello everyone,

The building of the PLL is going well. Some documentation is already on-line at <http://www.kitsandparts.com/pll.html>  
I'm about 90 pct finished building. Expect to finish tomorrow.  
Shipments will start on August 5th.

I you want a PLL kit, order it for \$59 (includes shipping) at...  
<http://www.kitsandparts.com/orders.html>

Another topic...

With the help of Tony Fishpool, G4WIF, I started a new E-group at Yahoo called "multiPIGplus". You can subscribe here...

[multipigplus-subscribe@yahoo.com](mailto:multipigplus-subscribe@yahoo.com)

The intent is to share information and provide a history for future builders.

Tony has volunteered to help us manage this new E-list.

This will be the last public email from me about the PLL for the MP+.  
All emails will now be through the Yahoo E-group. Thanks.

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio  
Clermont County - EM79uf - near Cincinnati; 39.218N - 84.305W  
SOC-8 DLQRPAG-1454 ARCI-10226 ARS-781 QRPL-1998 10X-9389 CATT-26  
FP#-1 <http://home.cinci.rr.com/w8diz> & <http://kitsandparts.com>

-----  
Date: Sat, 3 Aug 2002 19:13:17 -0700  
From: "Chetan Bhargava" <[wiz@bhargavaz.net](mailto:wiz@bhargavaz.net)>  
To: "Low Power Amateur Radio Discussion" <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [131469] Re: CPO Audio frequency  
Message-ID: <001601c23b5c\$9ac07790\$0100a8c0@main>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks for the response people. I have some LS00 in S014 package. I'll try to make a SMT CPO.

Regards,

Chetan Bhargava

<http://www.bhargavaz.net>

-----  
Date: Sat, 3 Aug 2002 19:41:35 -0700  
From: "Darrel E. Jones" <wd6bor@vom.com>  
To: <mgoins@usa.net>,  
      "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [131470] Re: simple keyer  
Message-ID: <008701c23b61\$47b7f5a0\$a8dd913f@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
              charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Mike,

I built a couple of Simple CMOS Keyers out of the ARRL Handbook and they work just fine. Parts cost is probably about \$5 to \$10 depending on your junk box.

Darrel, WD6BOR  
----- Original Message -----  
From: <mgoins@usa.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Friday, August 02, 2002 10:58 PM  
Subject: simple keyer

> Does anyone make a really simple, small, inexpensive, non-iambic keyer  
kit? I  
> need a minimal keyer that simply lets a paddle make dots on one side and  
> dashes on the other. No bells, no whistles.  
>  
> mike  
> wb5yjx  
>  
>  
>

-----  
Date: Sun, 04 Aug 2002 03:36:56 -0700  
From: Thomas Kuehl <ac7a@gci-net.com>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [131471] FOX: AC7A Final Result for Aug. 1st Hunt  
Message-ID: <3D4D03C8.9581FA2C@gci-net.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello FOX Hunters,

I received a message from K5TR indicating that he was running 5mW, not 5W! Otherwise nothing else received, so I will assume that the rest of the log is correct at this point. Thanks goes to Tom, N1TP, for providing me with operating tips before the hunt.

Thanks for participating in the Aug. 1st FOX hunt (Aug. 2nd UTC) and I'll be ready for you the next time!

Time(UTC)	Call	RST(S)	RST(R)	SPC	Name	Pwr (W)
-----------	------	--------	--------	-----	------	---------

0200	K3IU	559	559	RI	KEN	5
0202	N1TP	559	559	FL	TOM	5
0203	K4FB	559	579	FL	PAUL	5
0204	K7IE	559	589	OR	CLAIR	5
0205	K3PH	559	559	PA	BOB	5

0206	KB7WW	559	599	OR	ART	5
0206	K5EOA	559	559	LA	WAYNE	5
0207	W5USJ	559	559	TX	CHUCK	5
0208	AA50	559	559	LA	VERN	5
0208	VA6RF	559	559	AB	EARL	5

0210	K4MF	559	559	FL	GARY	5
0210	K5ZTY	559	559	TX	BILL	5
0212	K4BFY	559	559	FL	JACK	5
0213	W9XU	559	559	WI	LON	5
0214	VE5RC	559	339	SK	BRUCE	5

0215	N5YFC	559	559	LA	WAYNE	5
0217	WA9TZE	559	579	WI	JIM	5
0218	K8CV	559	559	MI	WALT	5
0218	W5YR	559	559	TX	GEORGE	5
0219	K4GT	559	559	GA	JIM	5

0220	K4JHP	559	559	TX	BILL	5
0221	K8DD	559	559	MI	HANK	5
0222	K5SR	559	559	TX	DALE	5
0223	WE9K	559	339	WI	GLENN	5
0224	W0PWE	559	559	IA	JERRY	5

0225 W5TB 559 559 TX DOC 5  
 0226 N5ZE 559 559 TX LEW 5  
 0226 AF4PS 339 559 FL MAC 3  
 0229 K9IUA 559 559 IA KEVIN 5  
 0231 N5IB 559 559 LA JIM 5  
  
 0232 K5DW 559 559 TX DON 5  
 0232 N3XVR 559 559 PA CHRIS 5  
 0234 WA8BXN 559 559 OH MIKE 5  
 0235 KV2X 559 559 NY TOM 5  
 0236 K5TR 559 599 TX GEO 0.005  
  
 0237 AJ4AY 559 559 AL JAY 4  
 0238 N7XY 339 569 WA BOB 5  
 0240 N4DD 559 559 TN DENNIS 5  
 0241 W4NJK 339 559 CA CHARLIE 5  
 0246 W9HL 599 559 IL RANDY 5  
  
 0247 KK5LD 559 559 TX DAN 5  
 0248 W0CH 559 559 MO DAVE 5  
 0249 K8HJ 559 559 MI JOHN 5  
 0252 KJ0C 559 559 MO JIM 5  
 0253 AB9CA 559 559 AL DAVE 5  
  
 0254 KC1FB 559 559 CT JIM 1  
 0257 N9WW/1 559 559 ME JIM 5  
 0258 KB9YIG 339 339 IN TONY 0.5  
 0259 NG7Z 559 559 WA PAUL 5  
 0302 K7TQ 559 559 ID RANDY 0.1  
  
 0305 N9NE 559 569 WI TODD 0.1  
 0306 AG0T 559 559 ND TODD 4  
 0314 NK9G 559 559 WI RICK 5  
 0317 K9DC 339 549 IN DAVE 5  
 0319 AK7D 559 559 OR FRED 1  
  
 0321 N0IT 579 559 MO DAVE 5  
 0322 N8NRG 559 559 MI BILL 5  
 0324 VE6EX 559 559 AB DAN 5  
 0330 N3BJ 559 559 VA ALAN 5  
 0333 VE3FAL 339 559 ON FRED 5  
  
 0335 K5LSU 559 559 LA MIKE 5  
 0343 WD5CMA 339 559 LA GLORIA 0.1  
 0352 K0PC 579 579 MN PAT 5  
 0400 AC7A 599 599 AZ THOMAS 5

Regards, Thomas - AC7A (Tucson)

-----  
Date: Sat, 3 Aug 2002 21:09:28 -0700  
From: "The Whites" <lwnphx@peoplepc.com>  
To: <QRP-L@lehigh.edu>  
Subject: [131472] Going for a new rig SALE  
Message-ID: <MCBBJMGIFOPHPNEBDNMMGEOKCBAA.lwnphx@peoplepc.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I want to buy a FT-817 and I am selling the following items:  
note: 1)I am will to haggle, and 2) all prices INCLUDE shipping.

Wilderness Sierra with 40, 30 & 20 meter modules       \$200  
                partially built (current price is \$295 + s&h}

Small Wonders Lab (Green Mountain) GM-20   \$50  
                Built but not in a case

NorCal 38 Special   \$25  
                partially built

Oak Hills Research Sprint 40       \$40  
                Completely built and in it's case which  
                has been drilled for a KC-1 (now in my NC-40A)  
                Kit is based on "An Optimized QRP Transceiver for 7 MHz"  
                1993 ARRL Handbook Ch30 p37 or QRP Classics.

original NorCal paddle \$25  
                completely built

Thank you  
Russ AB7JX

-----  
Date: Sun, 4 Aug 2002 01:43:09 -0400 (EDT)  
From: George Gingell <k3tks@u1.abs.net>  
To: QRP List <qrp-l@lehigh.edu>  
Subject: [131473] Re: ARRL Antenna Book 19TH Edition, Re: What is QRP Antenna?  
Message-ID: <20020804012624.T95212-100000@u1.abs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Please note the additional Subject modification.

I just could not resist adding my Two Cents to the discussion.

Yes Dave, There is definately a QRP/QRPP Antenna.

It is simply any Wire Type Antenna, (Usually Stealth) that is constructed from # 26 thru # 30 Magnet or Wire Wrapping Wire and appropriate insulators. It will almost assuredly Vaporize at powers in the range of 100 Watts. I remember when that was considered QRP :^}

I am also prompted to think what might happen if one was to insert one of the "Resetable Fuses" in each feed line leg? Would the Antenna System SHUT DOWN with Higher Power applied? I believe i read it is actually a Thermistor Type Device. O.K. another Idea that popped into the head. What will happen if a LED is inserted in each element of say a dipole at the feed point and on the ends. Will they Light? Will they BLOW OUT if QRO is Applied? DO I HAVE THE ANSWERS? NO NOT YET... :^}

Maybe some of the "Experts here can Explain the Theory"

Not that it really matters, I plan to try it for myself.

Any way, Thanks Dave, While the Question may have been with "Tongue in Cheek", it was never the less a good one. IMHO

We will get more out of these discussions if we keep an open mind and spend less time trying to prove that one knows more than another.

I am reasonably sure that most of you are ahead of me with education and brain power, but I am not going to let that prevent me from seeking the truth for myself and having fun on the way...

GN es GL May all of you Tuners Congugate or Match Your Antennas, Etc.

I am going to Bed now... :^}

QRPP Dx Tu, (C) 2002 K3TKS

Sir George, The First :^}

72 ES QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net  
Former QRP A.R.C.I. Net Manager and CURRENT Board of Director Member.  
Gingell & Company, Ltd. Small Business Telephone Systems, Handyman Services,  
Commercial & Residential Locksmith Services (301) 572-6789 Office & Fax  
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117



Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1,  
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -  
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Collector of Quartz Crystals and Telegraph Keys.

Maryland Milliwatt Club QRP Reference Library, Donations Accepted.

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

-----  
Date: Sun, 04 Aug 2002 06:59:53 +0000  
From: "Leon Heller" <leon\_heller@hotmail.com>  
To: wiz@bhargavaz.net, qrp-l@lehigh.edu  
Subject: [131474] Re: CPO Audio frequency  
Message-ID: <F782bCDI6T3JF57MPY70002da40@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

>From: "Chetan Bhargava" <wiz@bhargavaz.net>  
>Reply-To: wiz@bhargavaz.net  
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
>Subject: CPO Audio frequency  
>Date: Sat, 3 Aug 2002 14:29:41 -0700  
>  
>Hi People,  
>  
>What should be the ideal audible frequency of a CPO? I'm trying to make one  
>using 74LS00 as the key (microswitch from microwave oven) I have is a NC  
>type.

800 Hz is generally taken as the preferred frequency for listening to Morse.  
It might be better to use a simple sine wave oscillator instead of square  
waves as the tone will correspond better to what you will hear on the air. A  
74LS14 will use less components than a 74LS00, as a tone generator (one R  
and one C). The R goes between the output and input, and the C goes between  
the input and ground. Use 1K or so for the R. Time const. is 1/RC, approx. A  
555 timer is also popular for this type of circuit.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1424 14790  
Email:leon\_heller@hotmail.com  
My web page: [http://www.geocities.com/leon\\_heller](http://www.geocities.com/leon_heller)  
My low-cost Altera Flex design kit: <http://www.leonheller.com>

-----  
Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

-----  
Date: Sun, 4 Aug 2002 2:42:23 -0500  
From: "Doc Lindsey K0EVZ" <dock0evz@earthlink.net>  
To: "qrp-l reflector" <qrp-l@lehigh.edu>  
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>  
Subject: [131475] K0EVZ in AK land  
Message-ID: <41200280474223210@earthlink.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

Gang:

Am in Anchorage, AK, area for the next few days, returning to ND late on 8 August. Please give me a holler if you hear me. Today I heard a number of very good signals from the "Lower 48", but could never raise anyone. Tomorrow I hope to be back on there, this time with a bit more wire up, and up higher. Fingers crossed.

73,  
--Doc Lindsey K0EVZ

-----  
Date: Sun, 4 Aug 2002 2:42:3 -0500  
From: "Doc Lindsey K0EVZ" <dock0evz@earthlink.net>  
To: "Paul Womble" <pwomble1@tampabay.rr.com>  
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>,  
"qrp-l reflector" <qrp-l@lehigh.edu>  
Subject: [131476] Re: Contest?--K0EVZ/KL7 today  
Message-ID: <412002804742381@earthlink.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII

Paul:

Well gotta tell ya, you had a terrific signal this afternoon on 14.031.8 on my K1. I called and call you for over 20 minutes, but no joy. I was in Wasilla, AK, about 35 miles NW of Anchorage. Your signal was a good 15 over S-9, but you never came back.

I hope to be back on tomorrow for a short while, this time from Seward, SE of Anchorage. If you hear me, please give a holler. Thanks [g].

73,  
--Doc/K0EVZ

> [Original Message]  
> From: Paul Womble <pwomble1@tampabay.rr.com>  
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
> Date: 8/3/2002 6:26:59 PM  
> Subject: Re: Contest?  
>  
> North American QSO Party  
>  
> <http://www.ncjweb.com/naqprules.php>  
>  
> If you look you can even work me!  
>  
> Paul (Dan today) K4FB

--- Doc Linds

-----  
Date: Sun, 04 Aug 2002 07:04:35 -0400  
From: W2AGN <w2agn@w2agn.net>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [131477] Re: ARRL Antenna Book 19TH Edition, Re: What is QRP Antenna?  
Message-ID: <3D4CD203.5292.1281E5EA@localhost>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

On 4 Aug 2002 at 1:43, George Gingell wrote:

> Yes Dave, There is definately a QRP/QRPP Antenna.  
>  
> It is simply any Wire Type Antenna, (Usually Stealth) that is constructed  
>  
> from # 26 thru # 30 Magnet or Wire Wrapping Wire and appropriate  
> insulators. It will almost assuredly Vaporize at powers in the range of  
> 100 Watts. I remember when that was considered QRP :^}  
>

George,

I DO hope you are kidding, right? An antenna, even made of #30 magenet wire is NOT going to "vaporize" at 100W. The only way is if you have it close enough to some metal object to arc. Likewise, 300 ohm twinlead is not going to melt at 100W. It's not even going to get warm.

Been there, done that, got the T-shirt.

--

/ \ / \ / \ / \ / \ John L. Sielke  
( W )( 2 )( A )( G )( N ) <http://www.w2agn.net>  
\\_ / \\_ / \\_ / \\_ / \\_ / QRP/ARCI, NJQRP, ARQrp, GQRP, RSGB  
Ex- K3HLU, W7JEF, W4MPC, N4JS

-----  
Date: Sun, 4 Aug 2002 05:51:31 -0600 (MDT)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: Rick McKee <kc8aon@juno.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [131478] Re: Multiband "QRP" antenna - no tuner needed !  
Message-ID: <Pine.LNX.4.44.0208040545210.1682-100000@Daisy.dog>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Rick, this is along the lines of the B&W antenna that had a fine SWR from 3 to 30 MHz. They accomplished this by putting a 200 ohm resistor in parellel with the feed point.

On Sat, 3 Aug 2002, Rick McKee wrote:

> Gang,  
>  
> Obtain a short piece of 50 ohm coax with a plug on one end that matches  
> the

> antenna connector on your transmitter, on the other end of this piece of  
> coax, connect a 50 ohm non inductive resistor big enough to handle the  
> power of your transmitter from the center conductor to the shield.

When this resistor gets good and hot your working fine.

Now

> connect a random length of antenna wire (make sure and use something real  
> small in diameter or it aint QRP) to the center conductor and hang it  
> from a near by tree, then connect the shield side of the coax to a good  
> earth ground. Plug it into your transmitter and away you go, no tuner  
> needed, works all bands, and you will definitely have a QRP signal !  
>

Yes you will Rick. Very little will reach the antenna. 100 watts  
in, 5 watts out.

>  
> Rick McKee, KC8AON  
> Willow Wood, Ohio  
> QRP - Do more with less !

--  
Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

-----  
Date: Sun, 4 Aug 2002 06:26:39 -0600 (MDT)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: blinn <blinn@smgazette.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [131479] Re: ARRL Antenna Book 19th Edition  
Message-ID: <Pine.LNX.4.44.0208040619190.1682-1000000@Daisy.dog>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Your all missing the point. With intention. None of you ever ran  
1500 watts so you have no idea of what it takes to work with high power.  
I have run high power and it's quite easy to burn up a feed line. That's  
why we all used 600 ohm open wire line made from number 12 wire  
insulated with ceramic.

On Sat, 3 Aug 2002, blinn wrote:

Was there lightning in the area when it happened? Where you running 1500 watts out AM high level modulated? Real hard to tell.

> Darn, now I know.... it wasn't lightning that melted my 300 ohm feedline...  
> them QRO SWRs got it!  
>  
--

Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

-----  
Date: Sun, 4 Aug 2002 08:37:47 -0400  
From: "Dave Richards" <wr3i@earthlink.net>  
To: <k5di@zianet.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [131480] RE: ARRL Antenna Book 19th Edition  
Message-ID: <FAEEKPCBNNDNKGMPIBKKEGECFAA.wr3i@earthlink.net>

Excuse Me?

Karl I operate 80Meter Dx every Fall/Winter Using a full size Four square (that's Four Phased 62' verticals) and 1-1.5k. My Point about the QRP antenna that you want to Introduce to the ARRL Antenna Hand Book is that an 88' Dipole is not resonant on any band and requires a matching unit to make it work equally badly on all bands.  
so why devote valuable space in a very good book.  
Dave  
WR3I

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Karl F. Larsen  
Sent: Sunday, August 04, 2002 8:27 AM  
To: Low Power Amateur Radio Discussion  
Subject: Re: ARRL Antenna Book 19th Edition

Your all missing the point. With intention. None of you ever ran 1500 watts so you have no idea of what it takes to work with high power. I have run high power and it's quite easy to burn up a feed line. That's why we all used 600 ohm open wire line made from number 12 wire insulated with ceramic.

On Sat, 3 Aug 2002, blinn wrote:

Was there lightning in the area when it happened? Where you running 1500 watts out AM high level modulated? Real hard to tell.

> Darn, now I know.... it wasn't lightning that melted my 300 ohm feedline...

> them QRO SWRs got it!

>

--

Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

-----  
Date: Sun, 04 Aug 2002 08:41:02 -0400

From: Bruce Muscolino <w6toy@erols.com>

To: k3tks@u1.abs.net

Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [131481] Re: ARRL Antenna Book 19TH Edition, Re: What is QRP Antenna?

Message-ID: <3D4D20DE.13A8795E@erols.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Danny,

Why then, did my stealth antenna, made from #26 magnet wire, survive so well at 100 watts output from my (then) Icom 730? Antenna heating losses in this case are mostly myth from my experience!

73

>

> Yes Dave, There is definately a QRP/QRPP Antenna.

>

> It is simply any Wire Type Antenna, (Usually Stealth) that is constructed

>

> from # 26 thru # 30 Magnet or Wire Wrapping Wire and appropriate

> insulators. It will almost assuredly Vaporize at powers in the range of

> 100 Watts. I remember when that was considered QRP :^}

>

-----

Date: Sun, 04 Aug 2002 09:02:39 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: k5di@zianet.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [131482] Re: ARRL Antenna Book 19th Edition  
Message-ID: <3D4D25EF.27942D9B@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Karl,

You are probably right, at least about most of the newer QRPers.  
Others, like myself, have run 1.5 KW (or at least 1KW, AM), maybe not  
from their homes, but from club stations.  
It seems to me that many military MARS stations use 1.5 KW regularly,  
and use coax feedline!

Yes, power takes some thought. No, power will not melt feedlines or  
antennas willy nilly! Usually they ate poorly constructed to begin  
with.

Also, why did the RG8/U feedline survive?

63

-----  
Date: Sun, 4 Aug 2002 09:20:47 -0400  
From: "George Osier" <gosier@twcnny.rr.com>  
To: "QRP-L Group" <qrp-l@lehigh.edu>  
Subject: [131483] NAQP Results  
Message-ID: <000f01c23bb9\$bed342e0\$25624342@twcnny.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello All !!!!!

Had a good time with the test with not so good condx .....

40M 25 QSOS , 325 POINTS , 15 MULTS  
20M 41 QSOS , 861 POINTS , 17 MULTS  
15M 4 QSOS , 10 POINTS , 2 MULTS



TOTALS :

70 QSOS , 1196 PTS , 34 MULTS = 40664 POINTS TOTAL

Highlights .....

Worked all QRP except W40C and K07X , worked with 700 mw for NC and SC last  
2 states needed for Milliwatt WAS !!!!!

Also tnx to all who worked my tiny signal under the noisy condx !!!!!

71s

George Osier , N2JNZ / QRPP  
President  
Northern New York Contest Club

-----  
Date: Sun, 04 Aug 2002 13:20:59 +0000  
From: Larry Cahoon <lejek@erols.com>  
To: thom2@worldnet.att.net,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [131484] Re: [NJQRP] [CONTEST] N2CQ QRP Contest Contest Calendar -  
August 2002  
Message-ID: <5.1.0.14.0.20020804131731.029b4e38@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 04:23 PM 8/3/2002 -0400, Tom wrote:  
>Does anyone know if there is a Delaware State QSO party (of course I'm  
>assuming people live in Delaware!)

Try <http://www.fsarc.org/qso.htm>

They run it in early February. I've never managed to work more than about  
three stations in that contest. Of course they are all likely on the phone  
bands where I don't go looking for them.

MD is good enough to include DC in its state QSO party - perhaps DE could  
cut a deal with MD or PA somehow to join one of the other ones. It just  
might generate more interest.

73 de Larry.....WD3P in MD  
<http://www.wd3p.net/>

-----  
Date: Sun, 4 Aug 2002 09:48:39 -0400  
From: w4bws@juno.com  
To: qrp-1@lehigh.edu  
Subject: [131485] QRP Wattmeter- HM-102 Modification  
Message-ID: <20020804.094900.-361711.0.W4BWS@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

This is for anyone who needs a qrp watt meter. I modified an old Heath HM-102 QRP wattmeter to read 2 watts full scale on the 200 scale and 20 watts on the 2000 scale.

1. It requires a jumper across the 22K (R8) and 82K (R9) and then calibrate the 20 watt scale for full scale on the 2K watt scale.
2. Add a 10K ten turn trimpot -small screw adjust type- across the 90 K 1% (R5) and leave the cal/norm switch (S1) in the CAL position. Set the front panel switch to 200 watt position and use the added trimpot to set 2 watts to full scale on the 200 watt scale.

I added the jumper on the circuit side of the board from the end of the circuit run from R6, to next to the ground run with the mounting hole on the side away from the connectors, to the end of the outside circuit run just on the other side of the same mounting hole. This jumpers R8 and R9. The jumper goes from R6 to the red wire termination point.

I installed the trimpot at the end of the board with the CAL/NORM switch with the center lead to the end of S1 toward the connectors. The end terminal of the trim pot, away from the screw adjustment, goes to the circuit pad just inside the ground run. I added a piece of wire about 1 inch long to the trimpot lead and soldered the other end to the pad. This jumpers the 90 K, R5. With the switch set to 200 watt scale and the CAL/Norm switch set to CAL you can calibrate the 200 watt scale to 2 watts full scale using the trimpot.

The SWR function still operates normally but it takes at least 4 watts to get full scale calibrate setting. At lower power it still will give a relative reading and allow you to set minimum SWR.

Please let me know if you have any feedback on problems or good results. This may be a good input for the QRPp or QRP Quarterly for those who do not need this info now.

Melt Solder

Dr. Donald E. Sanders, D.C.      W4BWS  
1383 Cypress Ave.  
Melbourne, FL 32935  
w4bws@juno.com

My favorite rig glows in the dark and draws less power than a litebulb.

-----  
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-----  
Date: Sun, 04 Aug 2002 06:59:31 -0700  
From: Mike <mparkes@att.net>  
To: <qrp-l@lehigh.edu>  
Subject: [131486] <no subject>  
Message-ID: <B9728153.3A3%mparkes@att.net>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

query

-----  
Date: Sun, 04 Aug 2002 10:13:22 -0400  
From: Paul Womble <pwomble1@tampabay.rr.com>  
To: dock0evz@earthlink.net  
Cc: qrp-l reflector <qrp-l@lehigh.edu>  
Subject: [131487] Re: Contest?--K0EVZ/KL7 today  
Message-ID: <3D4D3682.57719D67@tampabay.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Sorry Doc...would love to had you in the log.

We had thunderstorms & rain off and on most of the contest. The QRN at

times was pretty loud and it took a very strong signal to be heard.

I did work a couple of AK stations but copy was pretty ruff.

73

Paul K4FB

-----  
Date: Sun, 4 Aug 2002 07:36:55 -0700 (Pacific Standard Time)  
From: "Sparky" <lou@harborside.com>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [131488] Freg.  
Message-ID: <3D4D3C07.00000D.01364@750n>  
MIME-Version: 1.0  
Content-Type: Text/Plain  
Content-Transfer-Encoding: quoted-printable

What is the Freg. used for the Southern Oregon fires??

-----  
Date: Sun, 4 Aug 2002 08:39:34 -0600  
From: William R Colbert <w5xe@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [131489] Re: Multiband "QRP" antenna - no tuner needed !  
Message-ID: <20020804.083936.-385523.0.w5xe@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The B&W antenna mentioned is NOT a 200 ohm resistor. It was designed originally by Capt. Gil Countryman, W3HH and written about extensively in QST and CQ Magazines in the late 20's and into the 50's. The basic design of the antenna is the T2FD or the Tilted Terminated Folded Dipole. The antenna was basically a balanced type at about 600-900 ohms and the resistive load was at 900 ohms. The other B&W encapsulated item is a balun for 50 ohm to the 600-900 load. Additionally, the antenna was primarily used in the 4 to 30 Mhz range and sold in large numbers to the various alphabet government agencies. We used them in very remote areas where those unfamiliar with radios and tuning could operate with minimal problem. The antenna was NOT flat across the range, but had severe impedance mismatches in the 11-14 mhz range, as well as some in the 6 Mhz range and as I recall in the 16-18 mhz range.

The company has in recent years started marketing the same antenna and indicating it useful down to 1.8 Mhz. It may load there in certain circumstances but in my experience in trying to run government frequencies in the 2.5-4 Mhz range, shows the swr increasing dramatically below 3.5 but with some nulls at certain spots.

LB Cebik and Arnie Coro have written extensively in recent times about the T2FD and it is a rather large affair, but is not a cure all antenna but as mentioned for others, fills a specific need for some. That can be said of some of the other popularly mentioned antennas of late.

73

Ray

"The more you read about politics, you got to admit that each party is worse than the other.

The one that's out always looks the best." -Will Rogers

Ray Colbert, W5XE, 00TC#3618, SOWP#1064M

NARTE-NCT2R QRP-ARCI 5784, El Paso, (FAR WEST) TEXAS

-----  
Date: Sun, 04 Aug 2002 10:19:46 -0500

From: Chuck Carpenter <w5usj@9plus.net>

To: qrp-l@lehigh.edu

Subject: [131490] [ FS ] Heathkit HM-102 Watt/SWR Meter

Message-ID: <3.0.2.32.20020804101946.007af310@mail.9plus.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

For Sale Heathkit HM-102 Watt/SWR meter with manual.

Can be modified for QRP using the procedure recently posted by w4bws@juno.com

\$30.00 shipped to any USPS address

Email Alt: w5usj@arrl.net, w5usj@go.com

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1

QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57

Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

-----  
Date: Sun, 4 Aug 2002 09:40:58 -0600 (MDT)

From: "Karl F. Larsen" <k5di@zianet.com>

To: Dave Richards <wr3i@earthlink.net>

Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [131491] RE: ARRL Antenna Book 19th Edition  
Message-ID: <Pine.LNX.4.44.0208040930240.2528-1000000@Daisy.dog>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 4 Aug 2002, Dave Richards wrote:

> Excuse Me?  
> Karl I operate 80Meter Dx every Fall/Winter Using a full size Four square  
> (that's Four Phased 62' verticals) and 1-1.5k.

I gather 1-1.5k means 1000 to 1500 watts. If this is the case please quit this list and join another that supports operating with high power. Or sell your amplifiers and try working DX with 5 watts on those good antenna's.

Last winter I worked Europe from Las Cruces New Mexico on 40 meters with my Butternut vertical during the CQ WW CW contest. With your big vertical array you should be able to work Europe and Japan no sweat with 5 watts.

My Point about the QRP  
> antenna that you want to Introduce to the ARRL Antenna Hand Book is that an  
> 88' Dipole is not resonant on any band and requires a matching unit to make  
> it work equally badly on all bands.  
> so why devote valuable space in a very good book.

I see your an expert on the 88 foot Dipole and it doesn't work at all. Please check with W5YR, George and explain to him why his antenna doesn't work well. George is thinking it works ok and usually works all the Foxes on 40 and 20 meters. He must be running 1-1.5k to those lousy antenna's...:-)

--

Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

-----  
Date: Sun, 4 Aug 2002 09:52:46 -0600 (MDT)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: qrp-l@lehigh.edu  
Subject: [131492] QRP Watt meter MFJ  
Message-ID: <Pine.LNX.4.44.0208040947030.2528-1000000@Daisy.dog>  
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

My new model MFJ-969 I find has a button switch that sets the peak power to either 300 or 30 watts. I was bellowing for a DX phone station on 20 meters yesterday and the tuner was in the line and the Forward Power needle in the peak power mode swang up smartly to about 1/2 of full scale and looked real nice. I was impressed by the movement but it may have taken too much power to do it, the DX guy never called me. Of course I had the FT-817 set for full QRP KW.

--

Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

-----  
Date: Sun, 4 Aug 2002 10:02:14 -0600  
From: William R Colbert <w5xe@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [131493] Re: Multiband "QRP" antenna - no tuner needed !  
Message-ID: <20020804.100217.-385523.2.w5xe@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I should have closer proof-read my posting -  
Captain Countryman's writings about the T2FD  
antenna took place in the late 40's into the 50's.  
Sorry for the misprint.

73  
Ray

-----  
Date: Sun, 04 Aug 2002 12:11:58 -0400  
From: Paul Stroud <aa4xx@ipass.net>  
To: qrp-l@lehigh.edu  
Subject: [131494] Spartan Sprint from Topsail Island  
Message-ID: <3D4D524E.6CB2AF80@ipass.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi Gang,

I'll be operating The SP from Topsail Island, NC Monday night.  
The rig will be a SW 20+ and the antenna will be a 20M halfwave  
vertical mounted close to the surf at New Topsail Inlet.

The power plant will be one AAA alkaline in series with a  
9V lithium battery, and tx output power will be 100mW.

Please listen for the peanut whistle from NC. :-)

72, Paul AA4XX

-----  
Date: Sun, 4 Aug 2002 13:06:40 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [131495] OT - but power savings...  
Message-ID: <002b01c23bd9\$58d82ee0\$0300a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have multiple computers here at the house. The problem is the  
monitors I put on each of the kids computers are not energy  
star.

Before I sit down and build a box to this, I was wondering if anyone  
already markets a box that plugs in to the video line and looks for the  
computer dropping sync that would then 'shut off' the monitor.

Mike

-----  
Date: Sun, 04 Aug 2002 14:06:24 -0400  
From: guyg <guyg@bellatlantic.net>  
To: "qrp-l@Lehigh.EDU" <qrp-l@lehigh.edu>  
Subject: [131496] rainbowntuner-bridge switch  
Message-ID: <3D4D6D20.F7149E11@bellatlantic.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello,



Could some kind elmer-type ham who has built the rainbow tuner with the DPDT switch (bridge in/out) help me with a problem. I can't determine if I have this switch wired correctly. I am not a great troubleshooter. Yes, I feel like an idiot. It is in a Doug Hauff case. Nice case, bad builder! Any suggestions would be greatly appreciated. Thanks and 73, Guy kb3ckw

-----  
Date: Sun, 04 Aug 2002 14:06:40 -0400  
From: Kenneth Hoglund <hoglund@wfu.edu>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [131497] Slinky Supplies  
Message-ID: <3D4D6D30.7EE1EFA4@wfu.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I know the famed "slinky dipole" has been discussed before on the list, and that many have bemoaned how difficult it is to find the steel slinkys anymore. Well last night the family was on the road, and we stopped at a Cracker Barrel ("half shop, half restaurant") and lo and behold there was a display of 'classic toys' including the 'Original 1945 Slinky' in all its steel glory. \$3.95 plus applicable sales tax.

They also have a crystal radio set too with cute retro package.

Not affiliated in any way with Cracker Barrel, its associates, or its affiliates--just ate there.

73  
Ken KG4FGC

-----

Date: Sun, 4 Aug 2002 11:26:28 -0700  
From: "Trevor Jacobs" <kg6cyn@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [131498] Re: ARRL Antenna Book 19th Edition  
Message-ID: <007301c23be4\$73993d40\$2ea0b2d1@tjacobs>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> Where you running 1500 watts out AM high level modulated? Real hard to tell.

That perked my ears up ;-)

73's Trev KG6CYN  
<http://home.earthlink.net/~kg6cyn>  
<http://www.qsl.net/kg6cyn>

-----  
Date: Sun, 04 Aug 2002 14:26:29 -0400  
From: W2AGN <w2agn@w2agn.net>  
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [131499] RE: ARRL Antenna Book 19th Edition  
Message-ID: <3D4D3995.26218.141698A2@localhost>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

On 4 Aug 2002 at 9:40, Karl F. Larsen wrote:

> On Sun, 4 Aug 2002, Dave Richards wrote:  
>  
> > Excuse Me?  
> > Karl I operate 80Meter Dx every Fall/Winter Using a full size Four square  
> > (that's Four Phased 62' verticals) and 1-1.5k.  
>  
> I gather 1-1.5k means 1000 to 1500 watts. If this is the case  
> please quit this list and join another that supports operating with high  
> power. Or sell your amplifiers and try working DX with 5 watts on those  
> good antenna's.  
>

In one message you say : "Your all missing the point. With intention. None of you ever ran

1500 watts so you have no idea of what it takes to work with high power. I have run high power and it's quite easy to burn up a feed line. That's why we all used 600 ohm open wire line made from number 12 wire insulated with ceramic."

Then you tell someone else to quit the list for running QRO. Sounds like you should be gone, too, then.

BTW, I still have my old TMC GPT 750, and a couple SB-220's. Haven't used them for a long time, but I have run quite QRO in the past, into antennas fed with twinlead...never had a problem.

Karl, when are you going to quit giving out this crap? I am sorely afraid some newcomer might actually believe you know what you are talking about.

--

/ \ / \ / \ / \ / \ John L. Sielke  
( W )( 2 )( A )( G )( N ) <http://www.w2agn.net>  
\\_/\_ \\_/\_ \\_/\_ \\_/\_ \\_/\_ QRPARCI, NJQRP, ARQrp, GQRP, RSGB  
Ex- K3HLU, W7JEF, W4MPC, N4JS

-----  
Date: Sun, 04 Aug 2002 14:35:38 -0400  
From: W2AGN <w2agn@w2agn.net>  
To: qrp-1@lehigh.edu  
Subject: [131500] Re: Multiband "QRP" antenna - no tuner needed !  
Message-ID: <3D4D3BBA.12827.141EF9E6@localhost>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

On 4 Aug 2002 at 14:18, w5xe@juno.com wrote:

> On 4 Aug 2002 at 8:39, William R Colbert wrote:

>

> > The B&W antenna mentioned is NOT a 200 ohm resistor.

>

>

Bill, begging your pardon, but the antenna DOES have a 200 ohm resistor. Not at the feedpoint, but at the center of the "top" element. It DOES waste power as heat, giving that up to obtain it's broad band feature.

Allow me to correct myself. I just did some checking. Their BN-1 'balancing network' is a 600 ohm resistor, not a 200 ohm. Still a power waster.

--

/\ /\ /\ /\ /\ John L. Sielke  
( W )( 2 )( A )( G )( N ) <http://www.w2agn.net>  
\\_/\_/\_/\_/\_/ QRPARCI, NJQRP, ARQrp,GQRP,RSGB  
Ex- K3HLU, W7JEF, W4MPC, N4JS

-----  
Date: Sun, 4 Aug 2002 13:10:49 -0600  
From: William R Colbert <w5xe@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [131501] Re: Multiband "QRP" antenna - no tuner needed !  
Message-ID: <20020804.131052.-385523.3.w5xe@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

My apologies once again - I have been informed that the resistor in the B&W designed T2FD type antenna is now 200 ohm - my comments were primarily referring to the original design and measurements of some of the early B&W antennas we had used. I suppose the change to a 200 ohm terminating resistor would be the easier match to a 4:1 balun rather than the 12:1 or higher ratio required in earlier versions.

I continue to learn. Thanks John (AGN) for bringing that to my attention. Also, B&W some years ago had to de-rate their resistor and balun on the 3-30 and 1.8-30 type antennas as they would not handle the power originally stated particularly in the RTTY modes.

I have used the B&W antenna in qrp situations and it does work but I think that the dipole fed with balanced line from either a broadband Palomar balun or tuner work some better. and the latter are a heck of a lot easier to install, not having to fight with the widely separated wires and pvc spacer pieces.

73  
Ray

-----  
Date: Sun, 04 Aug 2002 15:14:12 -0400  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-l@lehigh.edu  
Subject: [131502] Re: Info on batteries?

Message-ID: <5.1.0.14.1.20020804150818.00b2ce70@postoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 01:11 PM 8/3/2002 -0600, you wrote:

>Just got my flyer from Electronic Goldmine ([www.goldmine-elec.com](http://www.goldmine-elec.com)) and they  
>have a couple of interesting batteries:

>

>12VDC Alkaline Lighter Battery L1028/23A

>

>-- 1.1" L x 0.39" Dia, made by VINNIC used for remotes, electronic lighters,  
>etc. part# G13322, \$1.00 each or box of 50 for \$40.00

Paul,

My car remote entry transmitter uses a cell like that. I looked up the equivalent on Duracell's Web site. The mAh rating is pretty low (20 comes to mind) and it's intended for a really slow discharge rate.

I wired one into a CPO circuit using a CMOS logic chip (the quad Schmitt trigger - part number escapes me right now). I didn't use a power switch, thinking that when the thing wasn't actually oscillating the current draw would be pretty low. I used 1 meg resistors for pull-ups, but the battery still died after about 3 days.

I've thought about using one as the Vpp bias supply on a PIC programmer, since Microchip claims there is no current drawn from Vpp (it's used only to signal the chip to enter program mode).

Dave

-----  
"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton  
-----

Dave Hinerman  
WD8CIV@att.net

-----  
Date: Sun, 4 Aug 2002 13:41:22 -0600 (CST)  
From: Bruce Rattray <[rattray@gpfn.sk.ca](mailto:rattray@gpfn.sk.ca)>  
To: Low Power Group <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [131503] SLV question  
Message-ID: <Pine.LNX.4.33.0208041336480.1122-100000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

In my reading, I see where #22 guage wire is used for the radiating wire which goes around the slv extended...am I thinking correctly that one could use other guage wire if #22 is not available?...  
...also I see that on the top of the extended SD-20, pole there's a small metal circle which I guess is to be used to attach the top end of the radiating wire to....monofilament or something that is insulated...tnx...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -  
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -  
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

-----  
Date: Sun, 04 Aug 2002 15:23:04 -0500  
From: David Gauding <david.gauding@bbs.galilei.com>  
To: qrp-l@lehigh.edu  
Cc: rattray@gpfn.sk.ca  
Subject: [131504] Re: SLV question  
Message-ID: <5.1.1.6.0.20020804151042.00a29a30@bbs.galilei.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Bruce,

Use any gauge wire you wish - solid or stranded. I suppose the only real requirement is to keep it light enough not to induce bending on the upper sections - or causing sections to collapse upon themselves.

Yes, the eyelet at the top of the pole is used to hold the upper radiator wire. For portable applications, the fishing safety swivel makes it easy to attach or remove the radiator.

If you are worried about carbon fibers in the pole - or in the finish coat - affecting performance - put a small monofilament loop through the eyelet and attach the upper radiator to the loop.

Hoping this is helpful to you.

de Dave, NF0R      nf0r@slacc.com

At 01:41 PM 8/4/02 -0600, you wrote:

>In my reading, I see where #22 guage wire is used for the radiating wire  
>which goes around the slv extended...am I thinking correctly that one  
>could use other guage wire if #22 is not available?...  
>...also I see that on the top of the extended SD-20, pole there's a small  
>metal circle which I guess is to be used to attach the top end of the  
>radiating wire to....monofilament or something that is insulated...tnx...

-----  
Date: Sun, 4 Aug 2002 16:51:53 -0400 (EDT)  
From: KENNETH ROBERT MCGUIRE <at902@tcnet.org>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [131505] Re: NAQP Results  
Message-ID: <Pine.LNX.4.44.0208041638060.14417-100000@hendryx.tcnet.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I entered the NAQP for the first time yesterday. It was a fun little contest and I managed to knock off a few categories for WAS... I worked the last state I need on 20 (MS), as well as the last states I need CW (AR AZ IA and MS). Unfortunately I didn't see any short skip to get me the close states I need on 10 and 15, but you can't have everything...

Results:

BAND	QSO's	MULTS
40	51	28
20	74	26
15	15	4
10	4	2
TOTAL	144	60

Next time hopefully I will get enough sleep and so hop over to 80 late at night...

Unfortunately my K2 developed a problem during the contest (wire came loose on the main encoder so I had problems tuning). It took two tries of about 20 minutes down time (each time) to get it working. I also had to do a few other things around dinnertime and quit about 2 hours early...

Ken McGuire  
KC8LTL in EN74cp  
at902@tcnet.org

-----

Date: Sun, 04 Aug 2002 15:57:27 -0500  
From: "George, W5YR" <w5yr@att.net>  
To: rattray@gpfn.sk.ca  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [131506] Re: query results so far  
Message-ID: <3D4D9537.53422A67@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

For what it is worth, Bruce, at HF, the actual physical size of an antenna has little or nothing to do with its "capture area."

Capture area is just another term for expressing the gain of an antenna. It is an "effective area" related to the actual gain of the antenna and the wavelength. And there is a 2-pi in there somewhere.

Two antennas, one large and one small, that have the same gain (measured the same way) will have the same capture area. Capture area at HF does not relate to any available "area" of an antenna which can "capture" or intercept signal power. That is a frequent misunderstanding of the term.

So, shooting for a "big loop" in order to "capture as much area as possible" while intuitive doesn't guarantee a successful antenna. A Yagi and a quad, if they show the same gain, have the same capture area, although one may be much larger than the other.

But, you are on the right track: the more area enclosed by your loop, in general the "better" the performance will be. The degenerate case of a loop is the folded dipole and the other extreme is the circular loop which encloses maximum area - not capture area, just physical area.

At present my best all-round antenna, especially for Fox Hunting (!) is a tilted, equilateral, triangular loop that is 40 ft at the apex with the base 10 ft above ground. It is fed with ladderline in the center of the base leg. It is tilted from the vertical about 45 degrees. It is a little shorter than a full-wave on 80 meters, resonating at about 4.5 MHz. But it tunes 80-10 with no problems and has some very interesting patterns on the higher bands, including some very low elevation lobes.

Last Thursday night, at one time for a couple of minutes, Tom (AC7A) was SIX S-UNITS (S2 to S8) stronger on the loop than on a 20-meter EDZ pointed right at him broadside. A few minutes later the difference was only two S-units. Now, 6 "S-units" is nowhere near a difference of "36 dB" (more like 6 or 8 dB at most) but it was plenty noticeable.

Oh, yeah - it is made from #14 THHN house wire!



73/72/00, George W5YR - the Yellow Rose of Texas  
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe  
Amateur Radio W5YR, in the 56th year and it just keeps getting better!  
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735  
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

Bruce Rattray wrote:

> ...one suggestion was that I think in terms of a delta shaped loop in  
> order to overcome the power line problem...with "capture area" on my  
> mind, I got out my scale drawing of the backyard and began trying to fit a  
> 300 foot delta in somewhere...with the positioning of the house, garage,  
> trees, tower, etc it didn't work out but I thought it was a good  
> idea...this idea should work for some ham out there...

-----  
Date: Sun, 04 Aug 2002 16:36:43 -0500  
From: "George, W5YR" <w5yr@att.net>  
To: k5di@zianet.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [131507] Re: Wire and ferrite baluns  
Message-ID: <3D4D9E6B.E45AE71D@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have two MFJ 989C "3 KW" tuners - one is vintage 1995 and the other somewhat earlier, around 1991, I believe.

Both use simple 1:1 current baluns consisting of about 12-15 turns of a twisted-pair transmission line wound around and through a stack of three large toroids. The output end of the winding has both wires going to the feedthroughs which connect to the balanced feedline.

One end of the twisted pair at the input goes to chassis ground and the other end goes to one of the feedthrough insulators to the right of the "main pair" as you view it from the back. The other feedthrough is connected to the antenna switch terminals for the balanced antenna output.

To use the balun to feed the balanced line from the unbalanced (coax) output of the T-network tuner, you connect a jumper across the two feedthroughs to the right of the main pair. This connects - via the antenna selector switch - the t-network output to the input of the balun winding.

To use the tuner with a single wire, you leave the jumper off and connect

the end of the wire to the feedthrough that goes to the antenna selector switch described above.

As you can see, this balun is nothing more than a simple transmission line wound around and through a stack of toroids to form sufficient inductance to reduce or remove the common-mode current on the twisted-pair line.

Dare I abbreviate "common-mode" as CM?

As such it is a current or choke balun with a 1:1 ratio. Its function as a balun is largely independent of frequency over the range covered by the tuner (160 - 10) and its performance is also independent of the SWR on the balanced line, which is a differential-mode consideration.

For QRP work, a suitable ferrite toroid wound with a dozen or so turns of RG-174 makes an excellent balun. Connect the balanced line to the shield and center conductor at one end and the coax to the tuner at the other end.

The same RG-174 can be strung with 40-50 ferrite beads to form a W2DU 1:1 current balun. This is the type of balun that I use to transition from ladderline to coax into the shack and the tuners, but with RG-303 high-power coax.

I strongly believe in using a 1:1 balun with a multi-band antenna fed with twinlead or ladderline. If you model popular antenna and feedline combinations it almost inevitably turns out that a 4:1 balun -\*if in fact it worked as a 4:1 balun under mismatch conditions\* - makes impedance matching to the feedline a harder problem rather than an easier one.

It is important to remember that a balun, although it looks like a transformer, is NOT a transformer. It works as a transmission line works and the number of turns has little or nothing to do with the "transformation ratio" since a balun is not a transformer. There \*are\* r-f transformers wound on toroids, but they are not baluns. So, describing a balun as "4:1" means that it will transform impedances by a factor of four ONLY when terminated in its design impedances on input and output.

In older times, the 4:1 voltage balun was universally used. But in the 80's Roy Lewallen and Walt Maxwell made some serious balun experiments and wrote two of the definitive papers on balun operation. The work of Jerry Sevick, W2FMI, is well documented in his books that ARRL sells. Tom Rauch, W8JI, who designed the MFJ tuners and a number of linear amps has also experimented with baluns in the high-power environment.

The conclusion of all these gentlemen is that you are much better off to use a 1:1 current balun with a transmatch or antenna tuner in a multi-band situation. The basic reason is that a current balun will operate to force equal currents in the balanced line wires, and that is what you must have

to avoid line radiation, etc. A voltage balun, on the other hand, will force equal voltages on the balanced line and the current balance will depend upon the entire transmission-line/antenna system being balanced.

I have had zero problems here with three different antennas using ladderline and W2DU baluns, work 80 through 10 meters. And even the Foxii can hear me! <:}

73/72/00, George W5YR - the Yellow Rose of Texas  
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe  
Amateur Radio W5YR, in the 56th year and it just keeps getting better!  
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735  
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

"Karl F. Larsen" wrote:

>  
>       There was a long and heated discussion on balun design and I  
> have no desire to re-load that talk. But rather to talk about the LDG  
> Electronics BA-1 and the MFJ balun in nearly all their antenna tuners.  
>  
>       It was argued that the simple 1:1 balun is best when you want to  
> keep the balanced side to stay balanced and several other claimed  
> advantages I never fully understood. The difference between a 4:1 and 1:1  
> balun of this type is simply how you hook up the 4 wires that come out  
> of the windings which are usually 10-12 turns of 2 wires side by side  
> that covers 80% of the toroid. The toroid is made of a ferrite material.  
>  
>       When I got the LDG Electronics balun it had a powdered iron  
> toroid (red) which didn't work at all well. I replaced the core with  
> ferrite and it worked well as a 4:1 balun. Then I re-wired it for a 1:1  
> and it still worked fine. I can't say it worked better, but for sure as  
> well. I understand the BA-1 shipped now has a ferrite toroid.  
>  
>       The MFJ antenna tuners all have a 4:1 balun which made me wonder  
> if that configuration isn't better since MFJ has fine engineers  
> designing their gear. But then I studied my new one with the roller  
> inductor and the big box which has a QRP Cross needle SWR bridge, and  
> found the problem is simply that if hooked up as 4:1 then the simple  
> jumper from single wire input to the balanced input will work. If hooked  
> up as 1:1 you can't do this! I plan to hit up Dan's small parts for a  
> switch to do this with the 1:1 balun just as I did it in my QRP kit from  
> there.  
>  
>       My MFJ antenna tuner tunes up a lot different but works fine  
> with this change. The switch will regain the single wire input which I  
> never use.

-----  
Date: Sun, 4 Aug 2002 14:34:51 -0700 (PDT)  
From: Rob Ellis <ac6wq@yahoo.com>  
To: qrp-1@lehigh.edu  
Subject: [131508] Need main tuning dial for Index Labs  
Message-ID: <20020804213451.25053.qmail@web20008.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

I'm looking for a main tuning dial for the Index Labs  
QRP Plus in any condx, or if anyone knows of a  
substitute. Thanks in advance....Rob

-----  
Do You Yahoo!?  
Yahoo! Health - Feel better, live better  
<http://health.yahoo.com>

-----  
Date: Sun, 04 Aug 2002 16:43:20 -0500  
From: Lew Paceley <lew@paceley.com>  
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Cc: guyg@bellatlantic.net  
Subject: [131509] Re: rainbowntuner-bridge switch  
Message-ID: <000901c23bff\$f3b7bf40\$6501a8c0@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=Windows-1252  
Content-transfer-encoding: 7BIT

Hi Guy,  
I haven't built the rainbow tuner but I know I have to stop and think  
about how to wire the switch every time I build a K7VE SWR bridge  
into something! It's not that obvious for me either Guy.

If you'll excuse my bad ascii art I've created a diagram from the  
perspective of looking at the \_back\_ of the switch. Pretend the @'s  
are switch pins/lugs :-). Note that you are only connecting the  
center conductor of the BNC to the IN pin, similiarly the OUT goes to  
the input (non-grounded) side of the primary toroid winding. I  
recommend double checking the switch sense with an ohmmeter. I  
usually use toggle switches and in the diagram below (looking at the  
back of the switch) the switch would be in the DOWN position to remove  
the bridge from the circuit and in the UP position to put the bridge  
in-line with the tuner. And yes, I HAVE wired the switch backwards.  
;-)

-----

```

      |      |
      |@===@| (SHORT THESE PINS)
      |      |
IN  ===@    @=== OUT
      |      |
      |@    @|
      |!---!|
      |!    !|
      |!    !|
TO SWR <<!  !<< FROM SWR

```

I hope this helps some. GL es  
 72/73,  
 \*Lew\*  
 N5ZE

-----

Date: Sun, 4 Aug 2002 15:00:51 -0700  
 From: "The Whites" <lwnphx@peoplepc.com>  
 To: <qrp-l@lehigh.edu>  
 Subject: [131510] RE: Going for a new rig SALE  
 Message-ID: <MCBBJMGIFOPHPNEBDNMMIEPECBAA.lwnphx@peoplepc.com>  
 MIME-Version: 1.0  
 Content-Type: text/plain;  
           charset="iso-8859-1"  
 Content-Transfer-Encoding: 7bit

to all who replied:

Everything is now spoken for and I have sent email to each individual.  
 If any of the sales falls thru, I will send an email to the next person who  
 wanted that particular item.

This is the first time I have sold anything on the list, and I would  
 just like to say Thank You to those who responded.

I sold my Oak Hills WM-1 wattmeter at the AZ ScQRPion's meeting yesterday  
 else it would have been on the list also.

Thank You  
 Russ AB7JX

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of  
 The Whites  
 Sent: Saturday, August 03, 2002 9:09 PM

To: Low Power Amateur Radio Discussion  
Subject: Going for a new rig SALE

I want to buy a FT-817 and I am selling the following items:  
note: 1)I am will to haggle, and 2) all prices INCLUDE shipping.

Wilderness Sierra with 40, 30 & 20 meter modules       \$200  
    partially built (current price is \$295 + s&h}

Small Wonders Lab (Green Mountain) GM-20   \$50  
    Built but not in a case

NorCal 38 Special   \$25  
    partially built

Oak Hills Research Sprint 40       \$40  
    Completely built and in it's case which  
    has been drilled for a KC-1 (now in my NC-40A)  
    Kit is based on "An Optimized QRP Transceiver for 7 MHz"  
    1993 ARRL Handbook Ch30 p37 or QRP Classics.

original NorCal paddle   \$25  
    completely built

Thank you  
Russ AB7JX

-----  
Date: Sun, 4 Aug 2002 18:38:23 -0400  
From: "George Osier" <gosier@twcnny.rr.com>  
To: "QRP-L Group" <qrp-l@lehigh.edu>  
Subject: [131511] K7RE.....HELP !!!!!!!!!!!!!!!!!!!!!!!!!!!!!  
Message-ID: <000701c23c07\$a5a09f40\$25624342@twcnny.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

On Sun, 4 Aug 2002, George Osier wrote:

> Hello All !!!!!  
>  
> Had a good time with the test with not so good condx .....  
>  
> 40M 25 QSOS , 325 POINTS , 15 MULTS

> 20M 41 QSOS , 861 POINTS , 17 MULTS  
> 15M 4 QSOS , 10 POINTS , 2 MULTS

I thought that it was 1 pt per contact....

Ken McGuire  
KC8LTL in EN74cp  
at902@tcnet.org

Interesting point..... I was using QRPDUPE for logging and  
scoring ..... could it be a screwup in the program ????????

73s

George , N2JNZ / QRP

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End of QRP-L Digest 2637

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